

**EAST Search History**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	40417	(sputtering or sputtering) with (apparatus or device or system or chamber or reactor)	US-PGPUB; USPAT	ADJ	ON	2009/07/02 14:05
L3	126	I2 and (plasma near1 gun)	US-PGPUB; USPAT	ADJ	ON	2009/07/02 14:05
L4	41	I2 and (plasma near1 gun) and (electron near1 beam)	US-PGPUB; USPAT	ADJ	ON	2009/07/02 14:05
S1	20	((("5192578") or ("5439575") or ("5656141") or ("6663755") or ("6787740") or ("6908288") or ("200310153180") or ("5846608") or ("20030056716") or ("4008844") or ("4073639") or ("5106010") or ("5549767") or ("5794338") or ("4822248") or ("5451142") or ("5525429") or ("5732467") or ("5783318") or ("6049978") or ("6302625")).PN. or (2002/0076573).OCLS.	US-PGPUB; USPAT	OR	OFF	2007/08/01 16:18
S2	0	wo-2004011688-\$..did. or wo-2003028428-\$..did. or ep-1325969-\$..did.	US-PGPUB; USPAT	ADJ	ON	2007/08/01 15:56
S3	0	wo-04011688-\$..did. or wo-03028428-\$..did. or ep-1325969-\$..did.	US-PGPUB; USPAT	ADJ	ON	2007/08/01 15:56
S4	5	wo-2004011688-\$..did. or wo-2003028428-\$..did. or ep-1325969-\$..did.	EPO; JPO; DERWENT	ADJ	ON	2007/08/01 15:56
S5	102178	((titanium or ti) and (aluminum or al) and (molybdenum or mo)) and (tin or sn or zirconium or zr or vanadium or v)	US-PGPUB; USPAT	ADJ	ON	2007/08/01 16:20
S6	15460	sputter and (pulse or rf or ac)	US-PGPUB; USPAT	ADJ	ON	2007/08/01 16:21
S7	3094	S5 and S6	US-PGPUB; USPAT	ADJ	ON	2007/08/01 16:21

S8	388	S5 and S6 and "204".clas.	US-PGPUB; USPAT	ADJ	ON	2007/08/02 11:20
S9	4	S5 and S6 and "204".clas. and ksi	US-PGPUB; USPAT	ADJ	ON	2007/08/01 16:26
S10	22	S5 and S6 and ksi	US-PGPUB; USPAT	ADJ	ON	2007/08/01 16:34
S11	28	ion physical vapor deposition	US-PGPUB; USPAT	ADJ	ON	2007/08/01 16:34
S12	276	(ion physical vapor deposition) or ipvd	US-PGPUB; USPAT	ADJ	ON	2007/08/01 16:34
S13	25	S12 and S5	US-PGPUB; USPAT	ADJ	ON	2007/08/01 16:35
S14	102319	((titanium or ti) and (aluminum or al) and (molybdenum or mo)) and (tin or sn or zirconium or zr or vanadium or v)	US-PGPUB; USPAT	ADJ	ON	2007/08/02 11:21
S15	15479	sputter and (pulse or rf or ac)	US-PGPUB; USPAT	ADJ	ON	2007/08/02 11:21
S16	6	S14 and S15 and "204". clas. and (co-deposited or codeposited)	US-PGPUB; USPAT	ADJ	ON	2007/08/02 14:39
S17	6	S14 and S15 and "204". clas. and (co-deposited or codeposited or (simultaneous near4 deposit))	US-PGPUB; USPAT	ADJ	ON	2007/08/02 11:44
S18	3	S14 and S15 and "204". clas. and (co-deposit or codeposit or (simultaneous near4 deposit))	US-PGPUB; USPAT	ADJ	ON	2007/08/02 14:24
S19	1	("6153313").PN.	US-PGPUB; USPAT	OR	OFF	2007/08/02 14:24
S20	193	(pvd or (physical vapor deposition)) and (co- deposit or codeposit or (simultaneous near6 deposit))	US-PGPUB; USPAT	ADJ	ON	2007/08/02 14:41
S21	62	(pvd or (physical vapor deposition)) and (co- deposit or codeposit or (simultaneous near6 deposit)) and S14	US-PGPUB; USPAT	ADJ	ON	2007/08/02 14:41
S22	151	(bond strength) and (psi or ksi) and (refractory metal)	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2007/08/03 12:25
S23	151	(bond strength) and (psi or ksi) and (refractory metal)	US-PGPUB; USPAT	ADJ	ON	2007/08/03 12:26

S24	0	(bond strength) with (psi or ksi) with (refractory metal)	US-PGPUB; USPAT	ADJ	ON	2007/08/03 12:26
S25	43	(bond strength) with (psi or ksi) and(refractory metal)	US-PGPUB; USPAT	ADJ	ON	2007/08/03 12:26
S26	43	(bond strength) with (psi or ksi) and (refractory metal)	US-PGPUB; USPAT	ADJ	ON	2007/08/03 12:36
S27	1910	(psi or ksi) and (refractory metal)	US-PGPUB; USPAT	ADJ	ON	2007/08/03 12:36
S28	223	(psi or ksi) and (refractory metal) and ("204".clas. or "427".clas.)	US-PGPUB; USPAT	ADJ	ON	2007/08/03 12:37
S29	63	chiang.in. and (applied material).as.	US-PGPUB; USPAT	ADJ	ON	2007/08/06 11:51
S30	44	chiang.in. and (applied material).as. and (PVD or (physical vapor deposition))	US-PGPUB; USPAT	ADJ	ON	2007/08/06 11:51
S31	1	("6352629").PN.	US-PGPUB; USPAT	OR	OFF	2007/08/06 14:33
S32	2	Ti6Al2Sn4Zr2Mo	US-PGPUB; USPAT	ADJ	ON	2007/11/13 12:17
S33	19	"204".clas. and (PVD or (physical vapor deposition)) and (monitor with (plasma and (ion or power or volt or elect)))	US-PGPUB; USPAT	ADJ	ON	2007/08/11 09:27
S34	171	Ti-6Al-2Sn-4Zr-2Mo	US-PGPUB; USPAT	ADJ	ON	2007/11/13 12:18
S35	7717	ksi	US-PGPUB; USPAT	ADJ	ON	2007/11/13 12:18
S36	0	ksi and (pound-force per square inch)	US-PGPUB; USPAT	ADJ	ON	2007/11/13 12:45
S37	1172	bergmann.in.	US-PGPUB; USPAT	ADJ	ON	2008/01/22 17:48
S39	4	bergmann.in. and sputter and (electron beam)	US-PGPUB; USPAT	ADJ	ON	2008/01/22 17:48
S40	13	bergmann.in. and sputter	US-PGPUB; USPAT	ADJ	ON	2008/01/23 10:23
S41	1	("3773639").PN.	US-PGPUB; USPAT	OR	OFF	2008/01/23 10:57
S42	29	("3964986"   "4419202"   "4842710"   "4871434"). PN. OR ("4992153"). URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/01/23 11:09
S43	1	("5514260").PN.	US-PGPUB; USPAT	OR	OFF	2008/01/23 13:03

S44	17	("4867859"   "4877505"   "4992153"   "5234561"   "5413684"   "5427671"   "5454919").PN. OR ("5514260").URPN.	US-PGPUB; USPAT; USOOR	ADJ	ON	2008/01/23 13:03
S45	262	(pulsed with DC) and target and sputter\$ and titanium and tungsten	US-PGPUB; USPAT	ADJ	ON	2008/01/24 12:30
S46	17	(pulsed with DC) and target and sputter\$ and titanium and tungsten and (evaporation or vaporized)	US-PGPUB; USPAT	ADJ	ON	2008/01/24 12:30
S47	140	(pulsed with DC) and target and sputter\$ and titanium and tungsten and (evaporation or vaporized)	US-PGPUB; USPAT	ADJ	ON	2008/01/24 12:30
S48	226	(Ti-6Al-2Sn-4Zr-2Mo) or (Ti-8Al-1V-1Mo) or (Ti-6Al-2Sn-4Zr-6Mo)	US-PGPUB; USPAT	ADJ	ON	2008/01/24 13:20
S49	34	S48 and sputter\$	US-PGPUB; USPAT	ADJ	ON	2008/01/24 13:20
S50	2	S48 and sputter\$ and (DC with puls\$3)	US-PGPUB; USPAT	ADJ	ON	2008/01/24 13:20
S51	14	S48 and sputter\$ and evaporat\$3	US-PGPUB; USPAT	ADJ	ON	2008/01/24 13:22
S52	1	("5514260").PN.	US-PGPUB; USPAT	OR	OFF	2008/01/24 16:39
S53	1	10/734696.app.	US-PGPUB; USPAT	ADJ	ON	2008/01/24 17:00
S54	21	S48 and evaporat\$3	US-PGPUB; USPAT	ADJ	ON	2008/01/24 18:14
S55	20063	titanium and aluminum and vanadium and molybdenum	US-PGPUB; USPAT	ADJ	ON	2008/01/24 18:55
S56	1053	S55 and (sputter\$3 with target)	US-PGPUB; USPAT	ADJ	ON	2008/01/24 18:55
S57	596	S55 and (sputter\$3 with target) and evaporat\$3	US-PGPUB; USPAT	ADJ	ON	2008/01/24 18:56
S58	360	S55 and (sputter\$3 with target) and evaporat\$3 and apparatus	US-PGPUB; USPAT	ADJ	ON	2008/01/24 18:57
S59	40	S55 and (sputter\$3 with target) and evaporat\$3 and apparatus and "204".clas.	US-PGPUB; USPAT	ADJ	ON	2008/01/24 18:57
S60	10329	two near target	US-PGPUB; USPAT	ADJ	ON	2008/01/24 19:04
S61	94304	(two with sputter\$3 target) or (two with target)	US-PGPUB; USPAT	ADJ	ON	2008/01/24 19:04

S62	22807	((two with sputter\$3 target) or (two with target)) same (different or distinct or varied or various)	US-PGPUB; USPAT	ADJ	ON	2008/01/24 19:04
S63	744	((two with sputter\$3 target) or (two with target)) same (different or distinct or varied or various) and "204".clas.	US-PGPUB; USPAT	ADJ	ON	2008/01/25 14:36
S64	117	((two with sputter\$3 target) or (two with target)) same (different or distinct or varied or various) and "204".clas. and (bias voltage)	US-PGPUB; USPAT	ADJ	ON	2008/01/25 14:39
S65	79	(pulsed with DC) and target and sputter\$ and (evaporation or vaporized)	US-PGPUB; USPAT	ADJ	ON	2008/01/25 15:57
S66	124	(puls\$3 with DC) and target and sputter\$ and (evaporation or vaporized)	US-PGPUB; USPAT	ADJ	ON	2008/01/25 15:57
S67	752	(puls\$3 with DC) and target and sputter\$ and evaporat\$3	US-PGPUB; USPAT	ADJ	ON	2008/01/25 15:58
S68	102	(puls\$3 with DC) and target and sputter\$ and evaporat\$3 and "204". clas.	US-PGPUB; USPAT	ADJ	ON	2008/01/25 15:58
S69	4	("4992153"   "5242706"   "5395735"   "5468930"). PN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/01/25 17:37
S70	1	("0001933").PN.	US-PGPUB; USPAT	OR	OFF	2008/01/25 17:52
S71	1	("H001933").PN.	US-PGPUB; USPAT	OR	OFF	2008/01/25 17:52
S72	118	(Ti-8Al-1V-Mo) or (Ti-8Al-1Mo-1V) or (Ti-8Al-V-Mo) or (Ti-8Al-Mo-V)	US-PGPUB; USPAT	ADJ	ON	2008/01/25 18:10
S73	2	S72 and sputter and evaporat\$3	US-PGPUB; USPAT	ADJ	ON	2008/01/25 18:11
S74	4	S72 and sputter	US-PGPUB; USPAT	ADJ	ON	2008/01/25 18:11
S75	460	204/192.3.ccls. or 427/524.ccls.	US-PGPUB; USPAT	ADJ	ON	2008/01/25 18:28
S76	164	(204/192.3.ccls. or 427/524.ccls.) and sputter \$3 and evaporat\$3	US-PGPUB; USPAT	ADJ	ON	2008/01/25 18:29
S77	1	("6986381").PN.	US-PGPUB; USPAT	OR	OFF	2008/01/25 19:08

S78	2	jp-59025975-\$ did. or jp-06306588-\$ did.	JPO	ADJ	ON	2008/07/03 12:05
S79	29	("3964986"   "4419202"   "4842710"   "4871434"). PN. OR ("4992153"). URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/07/03 15:58
S80	25	("2892742"). PN. OR ("4415375"). URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/07/03 15:58
S81	58	("3282814"   "3464907"   "3677799"   "4082636"   "4401539"   "4490190"   "4492845"   "4609564"   "4692230"   "4724058"). PN. OR ("5015493"). URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/07/03 15:59
S82	33	("3594301"   "4336118"   "4416760"   "4600492"   "4622121"   "4661228"   "4842703"   "4865712"   "4941915"   "4990229"   "5122251"   "5178739"   "5234560"   "5241245"   "5280154"   "5304279"   "5366585"   "5397962"   "5404079"   "5417834"   "5418431"   "5429070"   "5429995"   "5430355"   "5431799"   "5503676"   "5639357"   "5707498"   "5925225"). PN. OR ("6231725"). URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/07/03 15:59
S83	51	("4170686"   "4382977"   "4424254"   "4550060"   "4716050"   "4720401"   "4751103"   "4777090"   "4795660"   "4803094"   "4828870"   "4844851"   "4950365"   "4973388"   "4983454"   "5001173"   "5004672"   "5011733"   "5032421"   "5062939"   "5104507"   "5244738"   "5252399"   "5272014"   "5275882"   "5306407"   "5308709"   "5356522"   "5358615"   "5372685"   "5403458"   "5403629"   "5405920"   "5407548"   "5536583"   "5597458"   "5614248"   "5616362"   "5658649"   "5691048"   "5738917"   "5756218"   "5807959"   "5858471"   "5869198"   "5922448"   "5942089"   "5968662"	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/07/03 15:59

		"5981079"   "6007349"   "6334942").PN. OR ("6875318").URPN.				
S84	70	("2977222"   "3241200"   "3243733"   "3256574"   "3257692"   "3265574"   "3266106"   "3296666"   "3321005"   "3389743"   "3485288"   "3492197"   "3519503"   "3547676"   "3567896"   "3683996"   "3718720"   "3781158"   "3802902"   "3900540"   "4005163"   "4129462"   "4209348"   "4226900"   "4453985"   "4574015"   "4579602"   "4608192"   "4612062"   "4627945"   "4670201"   "4719080"   "4761272"   "4769087"   "5026521"   "5163498"   "5176762"   "5226946"   "5439744"   "5489411"   "5525276"   "5630465"   "5665262"   "5705139"   "5924470"   "5964091"   "6113982"   "6250366"   "6360809"   "6408929"   "6572815"   "6634413"   "6705385"   "6755239"   "6776214").PN. OR ("6986381").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/07/03 15:59
S85	4	"5851737"	US-PGPUB; USPAT	ADJ	ON	2008/09/09 14:47
S86	11	"5514260"	US-PGPUB; USPAT	ADJ	ON	2008/09/09 14:47
S87	9	"5413684"	US-PGPUB; USPAT	ADJ	ON	2008/09/09 14:47
S88	14	"5310607"	US-PGPUB; USPAT	ADJ	ON	2008/09/09 14:47
S89	4	((("5851737") or ("5514260") or ("5413684") or ("5310607"))).PN.	US-PGPUB; USPAT	OR	OFF	2008/09/09 14:48
S90	2	((("4716340") or ("4919968"))).PN.	US-PGPUB; USPAT	OR	OFF	2009/01/09 17:09
S91	1	wo-8503954-\$ did.	DERWENT	ADJ	ON	2009/01/22 18:15
S92	1	("4673477").PN.	US-PGPUB; USPAT	OR	OFF	2009/01/22 18:17
S93	0	ep-0106638-\$ did.	EPO	ADJ	ON	2009/01/22 18:18

S94	0	ep-0106638-\$ did.	DERWENT	ADJ	ON	2009/01/22 18:18
S95	0	jp-6326346-\$ did.	JPO	ADJ	ON	2009/01/22 18:19
S96	1	jp-63026346-\$ did.	JPO	ADJ	ON	2009/01/22 18:19
S97	0	ep-01006638-\$ did.	EPO; DERWENT	ADJ	ON	2009/01/22 18:23
S98	0	ep-0106638-\$ did.	EPO; DERWENT	ADJ	ON	2009/01/22 18:23
S99	58	((KON) near2 (LEE)).INV.	US-PGPUB; USPAT	ADJ	ON	2009/01/22 18:25
S100	2	((ANTHONY) near2 (MUSSET)).INV.	US-PGPUB; USPAT	ADJ	ON	2009/01/22 18:25
S101	10	((RAINER) near2 (BUHL)). INV.	US-PGPUB; USPAT	ADJ	ON	2009/01/22 18:26
S102	1	((CHRISTOF) near2 (PEYER)).INV.	US-PGPUB; USPAT	ADJ	ON	2009/01/22 18:26
S103	19	("3760225"   "3955118"   "4301391"   "4390494"   "4570106").PN. OR ("4652795").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/01/22 18:40
S104	15	("3678334"   "3760225"   "3955118"   "4301391"   "4570106"   "4588490"   "4652795").PN. OR ("4716340").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/01/22 18:40
S105	35	("3625848"   "3956093"   "4438153"   "4448659"   "4600489"   "4645895"). PN. OR ("4919968"). URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/01/22 18:40
S106	19	("3760225"   "3955118"   "4301391"   "4390494"   "4570106").PN. OR ("4652795").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/01/23 13:30
S107	1722	plasma near1 gun	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/01/23 14:14
S108	1618	plasma near1 gun	US-PGPUB; USPAT	ADJ	ON	2009/01/23 14:14
S109	672	S108 and (titanium or ti)	US-PGPUB; USPAT	ADJ	ON	2009/01/23 14:14
S110	107	S108 same (titanium or ti)	US-PGPUB; USPAT	ADJ	ON	2009/01/23 14:15
S111	41	S108 with (titanium or ti)	US-PGPUB; USPAT	ADJ	ON	2009/01/23 14:15
S112	1	("3389289").PN.	US-PGPUB; USPAT	OR	OFF	2009/01/23 14:15

S113	1	("3389289").PN.	USOCR	OR	OFF	2009/01/23 14:16
S114	1	("4805833").PN.	US-PGPUB; USPAT	OR	OFF	2009/01/23 15:12
S115	15	("4805833"   "4902870"). PN. OR ("5120567"). URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/01/23 15:15
S116	19	("3427185"   "3748721"   "4370789"   "4411940"   "4574451"   "4577431"). PN. OR ("4805833"). URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/01/23 15:16
S117	12131	(sputter or sputtering) near1 target	US-PGPUB; USPAT	ADJ	ON	2009/01/23 15:58
S118	50	S117 with ((mo or molybdenum) and (tin or sn) and (vanadium or V) and (zirconium or zr))	US-PGPUB; USPAT	ADJ	ON	2009/01/23 15:59
S119	1	10/225272.app.	US-PGPUB; USPAT	ADJ	ON	2009/01/23 16:02
S120	1618	(plasma near1 gun)	US-PGPUB; USPAT	ADJ	ON	2009/01/23 17:22
S121	120	S120 same (electron near1 beam)	US-PGPUB; USPAT	ADJ	ON	2009/01/23 17:22
S122	73	S120 with (electron near1 beam)	US-PGPUB; USPAT	ADJ	ON	2009/01/23 17:22

7/2/2009 2:07:06 PM

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